

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
25 August 2005 (25.08.2005)

PCT

(10) International Publication Number
WO 2005/078646 A1

(51) International Patent Classification⁷: **G06K 19/07, 7/00**

(74) Agent: **KIDD, Piers, Burgess; Btg International Limited, 10 Fleet Place, Limeburner Lane, London EC4M 7SB (GB).**

(21) International Application Number:
PCT/GB2005/000376

(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(22) International Filing Date: 2 February 2005 (02.02.2005)

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(25) Filing Language: English

Published:

(26) Publication Language: English

— *with international search report*

(30) Priority Data:
0402665.4 6 February 2004 (06.02.2004) GB

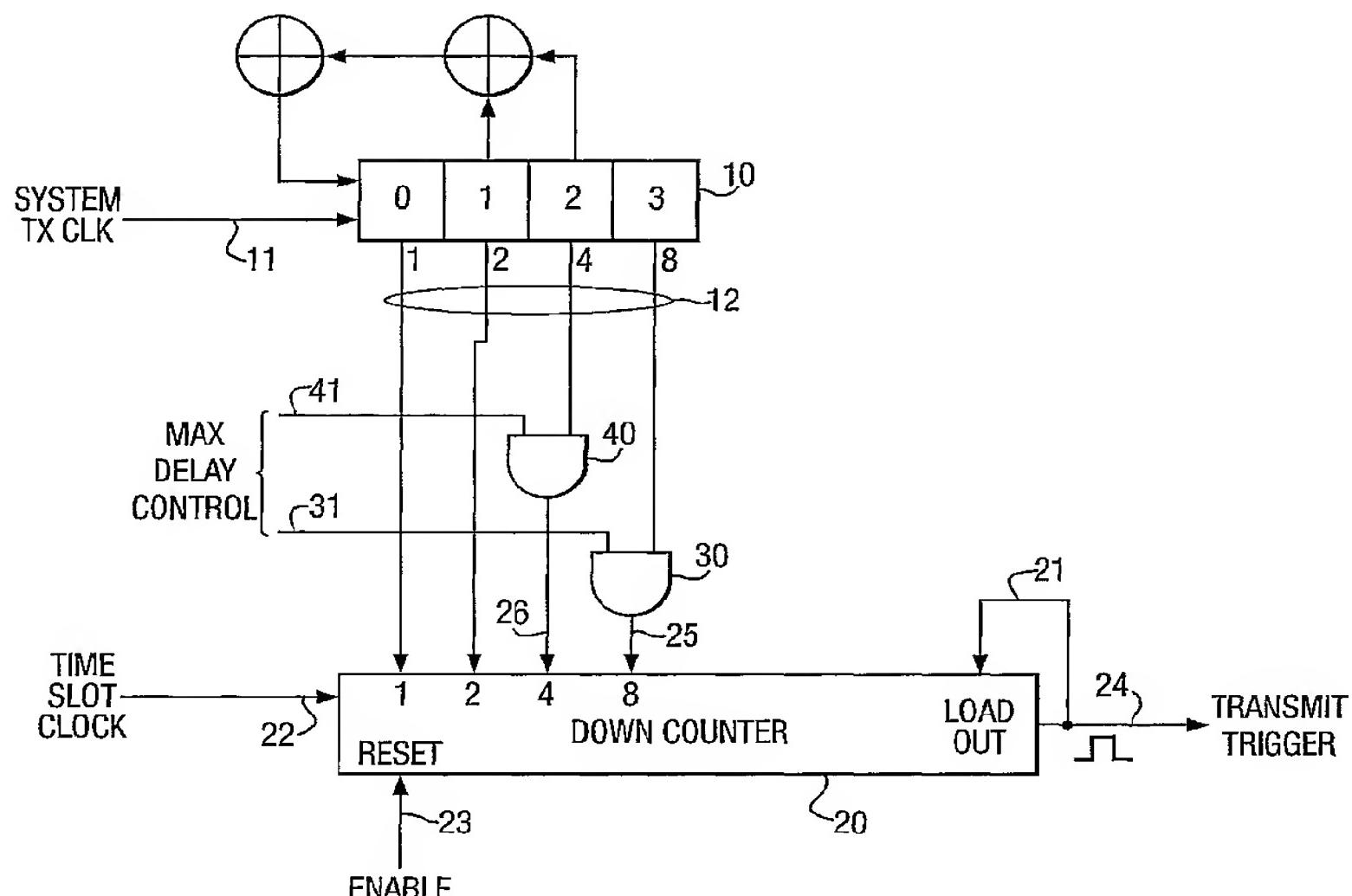
(71) Applicant (*for all designated States except US*): **BTG INTERNATIONAL LIMITED [GB/GB]; 10 Fleet Place, Limeburner Lane, London EC4M 7SB (GB).**

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **TURNER, Christopher, Gordon, Gervase [GB/GB]; 53 Brill Road, Oakley, Bucks HP18 9QN (GB). McMURRAY, Jonh [ZA/ZA]; Alberton, 1457 Gauteng (ZA).**

[Continued on next page]

(54) Title: METHOD AND SYSTEM FOR CONTROLLING RFID TRANSPONDER RESONSE WAITING PERIODS



(57) **Abstract:** The invention describes an arbitration management method and system for use in identifying RFID transponders or tags which each transmit a response signal to a reader within a respective waiting period the maximum duration of which can be adjusted. The maximum duration is determined by a random number transmitted to a counter (20) along a number of data lines (1, 2, 4, 8), at least one of the data lines (4, 8) being provided with logic gates (40, 30) which block or permit data line signals reaching the binary inputs (26, 25) of the counter to control the maximum length of the waiting period.

WO 2005/078646 A1

WO 2005/078646 A1



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.